





130		135		140
Pro Glu Lys Asp Gly	Leu Pro Ser Gly Thr	Pro Ala Leu Asn Ala Lys		
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Gly Thr Glu Ala Pro	Ala Val Val Thr	Glu Glu Glu Asp Asp Asp	Glu	
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Glu Thr Ala Pro Pro	Val Ile Ala Pro Arg Pro	Asp His Thr Lys Ser		
	180	185	190	
Ile Tyr Thr Arg Ser	Val Ile Asp Pro Val Pro	Ala Pro Val Gly Asp		
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Ser His Val Asp Gly	Ala Ala Lys Ser Leu Asp	Lys Gln Lys Lys Lys		
	210	215	220	
Pro Lys Met Thr Asp	Glu Glu Ile Met Glu	Lys Leu Arg Thr Ile Val		
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Ser Ile Gly Asp Pro	Lys Lys Lys Tyr Thr	Arg Tyr Glu Lys Ile Gly		
	245	250	255	
Gln Gly Ala Ser Gly	Thr Val Phe Thr Ala Thr	Asp Val Ala Leu Gly		
	260	265	270	
Gln Glu Val Ala Ile	Lys Gln Ile Asn Leu Gln	Lys Gln Pro Lys Lys		
	275	280	285	
Glu Leu Ile Ile Asn	Glu Ile Leu Val Met Lys	Glu Leu Lys Asn Pro		
	290	295	300	
Asn Ile Val Asn Phe	Leu Asp Ser Tyr Leu Val	Gly Asp Glu Leu Phe		
	305	310	315	320
Val Val Met Glu Tyr	Leu Ala Gly Gly Ser Leu	Thr Asp Val Val Thr		
	325	330	335	
Glu Thr Cys Met Asp	Glu Ala Gln Ile Ala Ala	Val Cys Arg Glu Cys		
	340	345	350	
Leu Gln Ala Leu Glu	Phe Leu His Ala Asn Gln	Val Ile His Arg Asp		
	355	360	365	
Ile Lys Ser Asp Asn	Val Leu Leu Gly Met Glu	Gly Ser Val Lys Leu		
	370	375	380	
Thr Asp Phe Gly Phe	Cys Ala Gln Ile Thr Pro	Glu Gln Ser Lys Arg		
	385	390	395	400
Ser Thr Met Val Gly	Thr Pro Tyr Trp Met Ala	Pro Glu Val Val Thr		
	405	410	415	
Arg Lys Ala Tyr Gly	Pro Lys Val Asp Ile Trp	Ser Leu Gly Ile Met		
	420	425	430	
Ala Ile Glu Met Val	Glu Gly Glu Pro Pro Tyr	Leu Asn Glu Asn Pro		

435	440	445
Leu Arg Ala Leu Tyr Leu Ile Ala Thr Asn Gly Thr Pro Glu Leu Gln		
450	455	460
Asn Pro Glu Lys Leu Ser Pro Ile Phe Arg Asp Phe Leu Asn Arg Cys		
465	470	475
Leu Glu Met Asp Val Glu Lys Arg Gly Ser Ala Lys Glu Leu Leu Gln		
485	490	495
His Pro Phe Leu Lys Leu Ala Lys Pro Leu Ser Ser Leu Thr Pro Leu		
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Ile Met Ala Ala Lys Glu Ala Met Lys Ser Asn Arg		
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<212> DNA

<213> Artificial Sequence

<220>

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

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29

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<211> 3255

<212> DNA

<213> Homo sapiens

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caactgctcc aggacagcaa gacaaaaata gaagtcatac gaatgcagat tcttcaggca 600  
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<211> 984

<212> PRT

<213> Homo sapiens

<400> 10

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Gly Asp Ser Arg Ser Leu Pro Phe Ser Glu Asn Val Ser Ala Val Gln
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Lys Leu Asp Phe Ser Asp Thr Met Val Gln Gln Lys Leu Asp Asp Ile
                      35                      40                      45

Lys Asp Arg Ile Lys Arg Glu Ile Arg Lys Glu Leu Lys Ile Lys Glu
                      50                      55                      60

Gly Ala Glu Asn Leu Arg Lys Val Thr Thr Asp Lys Lys Ser Leu Ala
  65                      70                      75                      80

Tyr Val Asp Asn Ile Leu Lys Lys Ser Asn Lys Lys Leu Glu Glu Leu
                      85                      90                      95

His His Lys Leu Gln Glu Leu Asn Ala His Ile Val Val Ser Asp Pro
                      100                      105                      110

Glu Asp Ile Thr Asp Cys Pro Arg Thr Pro Asp Thr Pro Asn Asn Asp
                      115                      120                      125

Pro Arg Cys Ser Thr Ser Asn Asn Arg Leu Lys Ala Leu Gln Lys Gln
                      130                      135                      140

Leu Asp Ile Glu Leu Lys Val Lys Gln Gly Ala Glu Asn Met Ile Gln
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Met Tyr Ser Asn Gly Ser Ser Lys Asp Arg Lys Leu His Gly Thr Ala
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Gln Gln Leu Leu Gln Asp Ser Lys Thr Lys Ile Glu Val Ile Arg Met
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Gln	Ile	Leu	Gln	Ala	Val	Gln	Thr	Asn	Glu	Leu	Ala	Phe	Asp	Asn	Ala		
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Lys	Pro	Val	Ile	Ser	Pro	Leu	Glu	Leu	Arg	Met	Glu	Glu	Leu	Arg	His		
		210				215					220						
His	Phe	Arg	Ile	Glu	Phe	Ala	Val	Ala	Glu	Gly	Ala	Lys	Asn	Val	Met		
225					230					235					240		
Lys	Leu	Leu	Gly	Ser	Gly	Lys	Val	Thr	Asp	Arg	Lys	Ala	Leu	Ser	Glu		
				245					250					255			
Ala	Gln	Ala	Arg	Phe	Asn	Glu	Ser	Ser	Gln	Lys	Leu	Asp	Leu	Leu	Lys		
			260					265					270				
Tyr	Ser	Leu	Glu	Gln	Arg	Leu	Asn	Glu	Val	Pro	Lys	Asn	His	Pro	Lys		
		275					280					285					
Ser	Arg	Ile	Ile	Ile	Glu	Glu	Leu	Ser	Leu	Val	Ala	Ala	Ser	Pro	Thr		
		290				295					300						
Leu	Ser	Pro	Arg	Gln	Ser	Met	Ile	Ser	Thr	Gln	Asn	Gln	Tyr	Ser	Thr		
305					310					315					320		
Leu	Ser	Lys	Pro	Ala	Ala	Leu	Thr	Gly	Thr	Leu	Glu	Val	Arg	Leu	Met		
				325					330					335			
Gly	Cys	Gln	Asp	Ile	Leu	Glu	Asn	Val	Pro	Gly	Arg	Ser	Lys	Ala	Thr		
			340					345					350				
Ser	Val	Ala	Leu	Pro	Gly	Trp	Ser	Pro	Ser	Glu	Thr	Arg	Ser	Ser	Phe		
		355					360					365					
Met	Ser	Arg	Thr	Ser	Lys	Ser	Lys	Ser	Gly	Ser	Ser	Arg	Asn	Leu	Leu		
		370				375					380						
Lys	Thr	Asp	Asp	Leu	Ser	Asn	Asp	Val	Cys	Ala	Val	Leu	Lys	Leu	Asp		
385					390					395					400		
Asn	Thr	Val	Val	Gly	Gln	Thr	Ser	Trp	Lys	Pro	Ile	Ser	Asn	Gln	Ser		
				405					410					415			
Trp	Asp	Gln	Lys	Phe	Thr	Leu	Glu	Leu	Asp	Arg	Ser	Arg	Glu	Leu	Glu		
			420					425					430				
Ile	Ser	Val	Tyr	Trp	Arg	Asp	Trp	Arg	Ser	Leu	Cys	Ala	Val	Lys	Phe		
		435					440					445					
Leu	Arg	Leu	Glu	Asp	Phe	Leu	Asp	Asn	Gln	Arg	His	Gly	Met	Cys	Leu		
		450				455					460						
Tyr	Leu	Glu	Pro	Gln	Gly	Thr	Leu	Phe	Ala	Glu	Val	Thr	Phe	Phe	Asn		
465					470					475					480		
Pro	Val	Ile	Glu	Arg	Arg	Pro	Lys	Leu	Gln	Arg	Gln	Lys	Lys	Ile	Phe		
				485					490					495			

Ser Lys Gln Gln Gly Lys Thr Phe Leu Arg Ala Pro Gln Met Asn Ile  
500 505 510

Asn Ile Ala Thr Trp Gly Arg Leu Val Arg Arg Ala Ile Pro Thr Val  
515 520 525

Asn His Ser Gly Thr Phe Ser Pro Gln Ala Pro Val Pro Thr Thr Val  
530 535 540

Pro Val Val Asp Val Arg Ile Pro Gln Leu Ala Pro Pro Ala Ser Asp  
545 550 555 560

Ser Thr Val Thr Lys Leu Asp Phe Asp Leu Glu Pro Glu Pro Pro Pro  
565 570 575

Ala Pro Pro Arg Ala Ser Ser Leu Gly Glu Ile Asp Glu Ser Ser Glu  
580 585 590

Leu Arg Val Leu Asp Ile Pro Gly Gln Asp Ser Glu Thr Val Phe Asp  
595 600 605

Ile Gln Asn Asp Arg Asn Ser Ile Leu Pro Lys Ser Gln Ser Glu Tyr  
610 615 620

Lys Pro Asp Thr Pro Gln Ser Gly Leu Glu Tyr Ser Gly Ile Gln Glu  
625 630 635 640

Leu Glu Asp Arg Arg Ser Gln Gln Arg Phe Gln Phe Asn Leu Gln Asp  
645 650 655

Phe Arg Cys Cys Ala Val Leu Gly Arg Gly His Phe Gly Lys Val Leu  
660 665 670

Leu Ala Glu Tyr Lys Asn Thr Asn Glu Met Phe Ala Ile Lys Ala Leu  
675 680 685

Lys Lys Gly Asp Ile Val Ala Arg Asp Glu Val Asp Ser Leu Met Cys  
690 695 700

Glu Lys Arg Ile Phe Glu Thr Val Asn Ser Val Arg His Pro Phe Leu  
705 710 715 720

Val Asn Leu Phe Ala Cys Phe Gln Thr Lys Glu His Val Cys Phe Val  
725 730 735

Met Glu Tyr Ala Ala Gly Gly Asp Leu Met Met His Ile His Thr Asp  
740 745 750

Val Phe Ser Glu Pro Arg Ala Val Phe Tyr Ala Ala Cys Val Val Leu  
755 760 765

Gly Leu Gln Tyr Leu His Glu His Lys Ile Val Tyr Arg Asp Leu Lys  
770 775 780

Leu Asp Asn Leu Leu Leu Asp Thr Glu Gly Phe Val Lys Ile Ala Asp  
785 790 795 800





Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.2	10.5	22	55
Gender	0.45	0.50	0	1
Marital Status	0.65	0.48	0	1
Education	12.5	1.2	10	16
Income	3500	1500	1000	8000
Health	0.75	0.42	0	1
Smoking	0.30	0.46	0	1
Alcohol	0.20	0.40	0	1
Exercise	0.15	0.36	0	1
Stress	0.60	0.49	0	1
Sleep	0.70	0.45	0	1
Appetite	0.80	0.40	0	1
Mood	0.65	0.47	0	1
Energy	0.75	0.42	0	1
Concentration	0.70	0.45	0	1
Memory	0.75	0.42	0	1
Emotion	0.60	0.49	0	1
Behavior	0.70	0.45	0	1
Thought	0.75	0.42	0	1
Feeling	0.70	0.45	0	1
Perception	0.75	0.42	0	1
Attention	0.70	0.45	0	1
Intuition	0.75	0.42	0	1
Imagination	0.70	0.45	0	1
Reasoning	0.75	0.42	0	1
Logic	0.70	0.45	0	1
Analysis	0.75	0.42	0	1
Synthesis	0.70	0.45	0	1
Evaluation	0.75	0.42	0	1
Comparison	0.70	0.45	0	1
Classification	0.75	0.42	0	1
Organization	0.70	0.45	0	1
Planning	0.75	0.42	0	1
Problem Solving	0.70	0.45	0	1
Decision Making	0.75	0.42	0	1
Communication	0.70	0.45	0	1
Interpersonal Skills	0.75	0.42	0	1
Teamwork	0.70	0.45	0	1
Leadership	0.75	0.42	0	1
Management	0.70	0.45	0	1
Organization Skills	0.75	0.42	0	1
Time Management	0.70	0.45	0	1
Resource Management	0.75	0.42	0	1
Conflict Resolution	0.70	0.45	0	1
Problem Solving Skills	0.75	0.42	0	1
Decision Making Skills	0.70	0.45	0	1
Communication Skills	0.75	0.42	0	1
Interpersonal Skills Skills	0.70	0.45	0	1
Teamwork Skills	0.75	0.42	0	1
Leadership Skills	0.70	0.45	0	1
Management Skills	0.75	0.42	0	1
Organization Skills Skills	0.70	0.45	0	1
Time Management Skills	0.75	0.42	0	1
Resource Management Skills	0.70	0.45	0	1
Conflict Resolution Skills	0.75	0.42	0	1
Problem Solving Skills Skills	0.70	0.45	0	1
Decision Making Skills Skills	0.75	0.42	0	1
Communication Skills Skills	0.70	0.45	0	1
Interpersonal Skills Skills Skills	0.75	0.42	0	1
Teamwork Skills Skills	0.70	0.45	0	1
Leadership Skills Skills	0.75	0.42	0	1
Management Skills Skills	0.70	0.45	0	1
Organization Skills Skills Skills	0.75	0.42	0	1
Time Management Skills Skills	0.70	0.45	0	1
Resource Management Skills Skills	0.75	0.42	0	1
Conflict Resolution Skills Skills	0.70	0.45	0	1
Problem Solving Skills Skills Skills	0.75	0.42	0	1
Decision Making Skills Skills Skills	0.70	0.45	0	1
Communication Skills Skills Skills	0.75	0.42	0	1
Interpersonal Skills Skills Skills Skills	0.70	0.45	0	1
Teamwork Skills Skills Skills	0.75	0.42	0	1
Leadership Skills Skills Skills	0.70	0.45	0	1
Management Skills Skills Skills	0.75	0.42	0	1
Organization Skills Skills Skills Skills	0.70	0.45	0	1
Time Management Skills Skills Skills	0.75	0.42	0	1
Resource Management Skills Skills Skills	0.70	0.45	0	1
Conflict Resolution Skills Skills Skills	0.75	0.42	0	1
Problem Solving Skills Skills Skills Skills	0.70	0.45	0	1
Decision Making Skills Skills Skills Skills	0.75	0.42	0	1
Communication Skills Skills Skills Skills	0.70	0.45	0	1
Interpersonal Skills Skills Skills Skills Skills	0.75	0.42	0	1

Met Ser Gly Pro Arg Pro Val Val Leu Ser Gly Pro Ser Gly Ala Gly  
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Gly Phe Ser Val Ser His Thr Thr Arg Asn Pro Arg Pro Gly Glu Glu  
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65 70 75 80

Ile Cys Val Leu Asp Val Asp Leu Gln Gly Val Arg Asn Ile Lys Ala  
100 105 110

Thr Asp Leu Arg Pro Ile Tyr Ile Ser Val Gln Pro Pro Ser Leu His  
115 120 125

Val Leu Glu Gln Arg Leu Arg Gln Arg Asn Thr Glu Thr Glu Glu Ser  
130 135 140

Leu Val Lys Arg Leu Ala Ala Ala Gln Ala Asp Met Glu Ser Ser Lys  
145 150 155 160

Glu Pro Gly Leu Phe Asp Val Val Ile Ile Asn Asp Ser Leu Asp Gln  
165 170 175

Ala Tyr Ala Glu Leu Lys Glu Ala Leu Ser Glu Glu Ile Lys Lys Ala  
180 185 190

Gln Arg Thr Gly Ala  
195

1

1